

GRUSHKO, O.L.; SPEKTOR, Sh.Sh.

Improving sulfuric acid refining of lubricants in old installations.  
Azerb. neft. khoz. 39 no.10:36-38 o '60. (MIRA 1):11)  
(Lubrication and lubricants)

DOCUMENT DATE / NUMBER ISR(?) 10

ACC NR: AT6024908 (A, N) SOURCE CODE: UR/2981/66/000/004/0015/0020

AUTHOR: Grushko, O. Ye.; Novikov, I. I.; Semenov, A. Ye.

ORG: none

42

B+1

TITLE: Hot cracking of alloys of the Al-Cu-Li-Mn system

SOURCE: Alyuminiyevyye splavy, no. 4, 1966. Zharoprochnyye i vysokoprochnyye splavy (Heat resistant and high-strength alloys), 15-20

TOPIC TAGS: hot cracking, aluminum alloy, copper containing alloy, lithium containing alloy, manganese containing alloy, cadmium containing alloy, CRACK PROPAGATION

ABSTRACT: The effect of composition on the hot cracking, elongation, and linear shrinkage of alloys (in the solid-liquid state) of the systems Al-Li, Al-Cu-Li, and Al-Cu-Li-Mn, and also of VAD23 industrial alloy was studied. In the Al-Li system, the maximum hot cracking is displayed by the alloy containing 0.1% Li; on the whole, the dependence of hot cracking on composition is qualitatively the same as in other eutectic-type binary systems. In the ternary Al-Cu-Li alloys, hot cracking decreases with rising lithium content; the higher the copper content, the stronger the influence of the lithium admixture. In alloys of the quaternary system Al-Cu-Li-Mn, lithium decreases the hot cracking, but manganese increases it considerably by affecting the plasticity in the solid-liquid state. In VAD23 alloy, similar changes in the content of

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ACC NR: AT6024908

alloying elements (Li, Cu, Mn) have the same qualitative effect as in the other systems; an increase in the content of Mn and also Cd increases the hot cracking. It is concluded that in order to decrease spoilage due to crystallization cracks, it is necessary to try to keep the copper and lithium content close to the upper limit of the technical specifications, and the content of manganese and cadmium, close to the lower limit. Orig. art. has: 5 figures.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 006

*N*  
Card 2/2

L 46988-66. EWP(m)/SWP(t)/ETI IJP(c) JD/JT  
ACC NR: AT6024909 (A, N)

SOURCE CODE: UR/2981/66/000/004/0021/0025

AUTHOR: Zal'tzman, I. Ya.; Grushko, O. Ye.; Semenov, A. Ye.; Zasyplkin, V. A.;  
Vinokurov, N. D.; Kryukov, M. A.; Levstygina, A. P.; Bozhenok, I. V.

38  
B+1

ORG: none

TITLE: Some aspects of the preparation of VAD23 alloy, 8

SOURCE: Alyuminiyevyye splavy, no. 4, 1966. Zharoprochnye i vysokoprochnye splavy  
(Heat resistant and high-strength alloys), 21-25

TOPIC TAGS: aluminum alloy, copper containing alloy, lithium containing alloy, manga-  
nese containing alloy, cadmium containing alloy / VAD23 alloy

ABSTRACT: VAD23 alloy belongs to alloys of the Al-Cu-Li system with small admixtures  
of Mn and Cd. Because of the loss of lithium from the melt during the preparation of  
this alloy, the introduction of lithium (and cadmium) was carried out under a special  
flux consisting of a eutectic mixture of lithium and potassium chlorides. This flux  
was found to prevent the loss of lithium to a considerable extent; however, as the  
lithium content of the alloy increases, this protection becomes less effective. Partic-  
ular attention must be paid to the quality of preparation of the flux and to the manner  
in which lithium is introduced into the melt (without disturbing the flux). The flux  
has the disadvantage of being hygroscopic because of the LiCl present in its composi-  
tion, and therefore must be used only in the liquid or freshly-remelted state, the

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L 46988-66

ACC NR: AT6024909

liquid state being preferred. Refining of the alloy with gaseous chlorine after the addition of lithium insures the required purity of the ingots. Orig. art. has: 3 figures and 1 table.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 001

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Card 2/2

I. 46987-66 EWP(k)/EWP(m)/EWP(t)/ETI IJP(c) JR/JD  
ACC NR: AT6024910 (A, N) SOURCE CODE: UR/2981/66/000/004/0026/0031

AUTHOR: Grushko, O. Ye.; Zal'tzman, I. Ya.; Vinokurov, N. D.; Semenov, A. Ye.; Zasyipkin, V. A.; Kryukov, M. A.; Yevstyugin, A. P.; Bozhenok, I. V.

ORG: none

40  
B+1

TITLE: Process of casting VAD23-alloy ingots

SOURCE: Alyuminiyevyye splavy, no. 4, 1966. Zharoprochnyye i vysokoprochnyye splavy (Heat resistant and high-strength alloys), 26-31

TOPIC TAGS: metal casting, lithium containing alloy, aluminum alloy, copper containing alloy, VAD23 aluminum alloy

ABSTRACT: In elaborating a process for casting ingots from VAD23 alloy by the continuous method, the authors studied the casting properties (tendency to form hot and cold cracks) of this alloy, established the temperature conditions of the casting, and determined the methods of protecting the metal during transit from the mixer to the crystallizer and in the crystallizer. The chemical activity of lithium, which enters into the composition of the alloy, made it necessary to protect the alloy surface during transit. Two methods were tested for this purpose, involving the use of (1) sulfur dioxide and (2) a flux consisting of a eutectic mixture of lithium and potassium chlorides. Only the latter method gave satisfactory results. A temperature of 700-730°C was found to be optimal for casting. The quality of the ingots obtained was thoroughly

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L 46987-66

ACC NR: AT6024910

checked by analyzing the structure of fractures, microstructure, density, liquation, and mechanical properties along the length and cross section of the ingot in the longitudinal and transverse directions. The elaborated casting process, which includes protection of the metal with a liquid flux on the path from the mixer to the crystallizer, produced good-quality ingots. Orig. art. has 3 figures and 1 table.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 002

Card 2/2

GRUSHKO, P. (g. Izhevsk)

On whom does the economy of technology depend? Sots. trud. no.5:  
91-92 My '56. (MLRA 9:8)  
(Production standards)

GRUSHKO, S.; SHCHETININA, Ye., red.; POLEVAYA, Ye., tekhn. red.

[Climate and weather] Klimat i pogoda. Kishinev, Kartia moldoveniaske, 1961. 85 p.  
(MIRA 16:3)  
(Climatology)

GRUSHKO, S. S.

Natural and economic resources and the fundamental trends in the agriculture  
of the region and the republic Kishinev, Gos. izd-vo Moldavii, 1951.  
58 p. (V pomoshch' agrotekhnicheskim trekhletnim kursam. 1st, tema 4)

GRUSHKOVITE  
cf.

Mineral of the polygorskite group from the Solikamsk beds in the Kungur complex of the northern Sub-Ural. F. P. Gerasimov, T. E. Grushko, and P. N. Chirvinskii. Zapiski Vsesoyuz. Mineral. Obshchestva (Mém. soc. russe mineral.) 76, No. 2, 95-100 (1949). Polygorskite is observed as an asbestoslike fibrous vein mineral occurring in partly dense, partly porous, or cellular limestones and dolomites. The fibers may have lengths up to 7 cm. and are perpendicular to the walls. The limestones and dolomites are associated with anhydrite and mixed anhydrite-dolomite rocks. The birefringence of the polygorskite is about  $\gamma_1 - 0.020$ ,  $\beta - 0.018$ ; the elongation of the fibers is pos. The ws are 1.000-1.015. The needle-shaped crystals show an excellent pinacoidal cleavage (100) and are therefore easily reduced to single fibers.

They are partly water clear, partly brown-colored by Fe hydroxide ("xyolite"), with a weak pleochroism, and rather heterogeneous. The angle 2 $\lambda$  is probably small, the axial plane is oriented in the length direction. Symmetry is probably orthorhombic. The mineral is easily colored by methylene blue with a vivid pleochroism. Chem. analysis of the accompanying carbonate rocks shows that most of the MgO of dolomite migrated to the polygorskite, the compn. of which is SiO<sub>2</sub> 38.48, Al<sub>2</sub>O<sub>3</sub> 0.57, Fe<sub>2</sub>O<sub>3</sub> 1.72, CaO 18.86, MgO 18.36, CO<sub>2</sub> 0.57 (as CaCO<sub>3</sub>), H<sub>2</sub>O 0.81, H<sub>3</sub>O<sup>+</sup> 6.23 total ignition loss 22.30%. If the mineral is treated with 6% acetic acid and 2% HCl for 2 hrs., the compn. is MgO 28.0, SiO<sub>2</sub> 41.0, but this formula is not that of polygorskite but of a "para-sepiolite". Density after acid treatment is at 4° = 2.05. Evidently, the polygorskite is partly decompr. by extr. of CaO and MgO even by a mild acid treatment. The particularly low Al<sub>2</sub>O<sub>3</sub> and Fe<sub>2</sub>O<sub>3</sub> content of the mineral may be responsible for this low stability.  
W. Eitel

GRUSHKO, V.A.

Our suggestions and recommendations. Elek. i tepl. tiaga 3  
no.3:27-28 Mr '59. (MIRA 12:5)

1. Nachal'nik depo "Oktyabr'" Makeyevskogo metallurgicheskogo  
zavoda.  
(Diesel locomotives)

L 11150-67 EWT(k)/EWT(h)/EWT(g)/EWT(l)/EWT(v)

ACC NRE AP6034637

SOURCE CODE: UR/0102/66/000/004/0003/0007

AUTHOR: Hrushko, V. L. -- Grushko, V. L. (Dnipropetrova'k); Chernyshov,  
O. N. -- Chernyshev, A. N. (Dnipropetrov's'k)

ORG: none

37

36

TITLE: Synthesis of an automatic-control system with nonlinear feedback which provides stable transmission of given transient response

SOURCE: Avtomatyka, no. 4, 1966, 3-7

TOPIC TAGS: servosystem, electronic amplifier, automatic control, nonlinear feedback, transient response

ABSTRACT: The authors propose a unit with a nonlinear functional converter  $F(x_{out}, u)$  in the primary feedback circuit for stable transmission of a given transient response in a closed loop of a nonlinear servosystem under fixed initial conditions and possible disturbances. A method is described for determining the characteristics of the functional converter with the aid of an inverse open-loop electronic model. Data are supplied for designing the inverse model and for a method of approximating nonlinear characteristics of elements of the automatic-

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L 11150-67

ACC NRE AP6034637

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617120013-0"

control system by smooth curves. The paper includes results for the synthesis of nonlinearity of the  $F(x_{out}, u)$ , and investigations of transient response stability under the effect of disturbances in a servosystem designed with the Leonard circuit with an amplidyne and electronic amplifiers. The research was carried out at the Dnepropetrovsk Institute of Metallurgy. Orig. art. has: 5 figures and 7 formulas. [Based on authors' abstract]

SUB CODE: 13 / SUBM DATE: 21Mar66/ORIG REF: 003/

Card 2/2 mle

L 07992-67 EWP(k)/EWT(m)/EWP(t)/ETI IJP(c) JD/HW  
ACC NR: A17001666 SOURCE CODE: UR/0144/66/000/006/0656/0662

AUTHOR: Lur'ye, Z. Ya.; Timovskiy, A. K.; Grushko, V. L.

38  
B

ORC: none

TITLE: Electron model investigation of automated multi-motor electric drive for device for cross cutting rolled steel

SOURCE: IVUZ. Elektromekhanika, no. 6, 1966, 656-662

TOPIC TAGS: metal cutting, automation, nonlinear differential equation

ABSTRACT: The transient processes in an automated system for periodic cutting of continually rolled sheet into lengths are described by complex non-linear differential equations. Due to the difficulty of solution of the equations, the investigation of the dynamics of such systems is often performed using mathematical modeling with continuous-operation electronic machines. This article analysis problems in the investigation of a multi-motor electric drives for such an apparatus using an electronic model. Practical recommendations are presented relative to methods of investigation in consideration of the peculiarities of the technological processes involved. The electron model investigations performed allowed the authors to suggest the following method of investigation:

1) Clarification of the structure of the speed control of the temper

Card 1/2

UDC: 621.34+621.771

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L 07992-67  
ACC NR: AP7001666

0

mill;

- 2) Determination of the structure of the compensation units and dynamatic components of the stress;
- 3) Determination of the parameters and correcting links for the automatic control units in loops providing the required static accuracy, stability and quality of the transient process;
- 4) Clarification of the parameters involved in combined operation of the entire control system. The control system developed has been in operation since 1963. Orig. art. has: 5 figures and 10 formulas. [JPRS: 37,811]

SUB CODE: 13, 12 / SUBM DATE: 30Apr65 / ORIG REF: 006

Card 2/2 98

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120013-0

....., V. I., (Engr)

Dissertation: "Theoretical and experimental Determination of wetting rates of Certain Construction Materials." Cand Tech Sci, Moscow Order of Labor Red Banner Engineering Construction Inst imeni V. V. Kuybyshev, 8 Jun 54. Vechernaya Moskva, Moscow, 28 May 54.

SO: SUM 284, 26 Nov 1954

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120013-0"

GRUSHKO, V.M., kand.tekhn.nauk, ispolnyayushchiy obyazannosti dotsenta.

Determining the initial temperature of plates in the first  
quarter of their thickness. Trudy RISI no.4:181-192 '55.  
(MIRA 12:1)

(Heat--Transmission)

(Concrete slabs)

GRUSHKO, V.M., kand.tekhn.nauk, dots.

Moisture balance of exterior walls with ventilating interlayers.  
Trudy RISI no.9:42-55 '57. (MIRA 12:11)  
(Walls) (Dampness in buildings)

GRUSHKO, V.M., dotsent, kand. tekhn. nauk

Thermal principles involved in selecting designs of walls and roofs  
for large-block cow barns. Trudy RISI no.6:79-94 '58.

(MIRA 12:6)

(Dairy barns) (Heat (Insulation))

ORLOVSKIY, Z.E., kand.tekhn.nauk; GRUSHKO, V.M., kand.tekhn.nauk; VOLKOVSKIY,  
N.N. inzh.

Reconstruction of steam-curing chambers. Bet.i zhel.-bet. no.12:  
563-564 D '60. (MIRA 13:11)  
(Autoclaves)

PA 11/17E.5

GRUSHKO, YA. M.

USSR/Medicine - Environment  
Medicine - Hygiene and Sanitation

Jun 48

"Studies of the Effects of External Factors on Man,"  
Ya. M. Grushko, Chair of Community Hygiene, Irkutsk  
Med Inst, 5 pp

"Gig i San" No 6

Reviews progress of subject study in USSR. Dis-  
cusses research methods.

14/49743

ca

11 F

**Chromium as a Bioelement.** Ya. M. Grushko (Irkutsk Med. Inst., Russia). *Biochimika* 19: 1294-6 (1968).—Cr<sub>L</sub> is a const. constituent of man, animals, and plants. As analyzed by the spectroscope, the Cr content in man is 15–20 mg. % on a wet basis; for hair 0.2, nail 0.12, bone 0.08, heart 0.01, brain 0.012, muscle 0.0002, blood 0.0035.

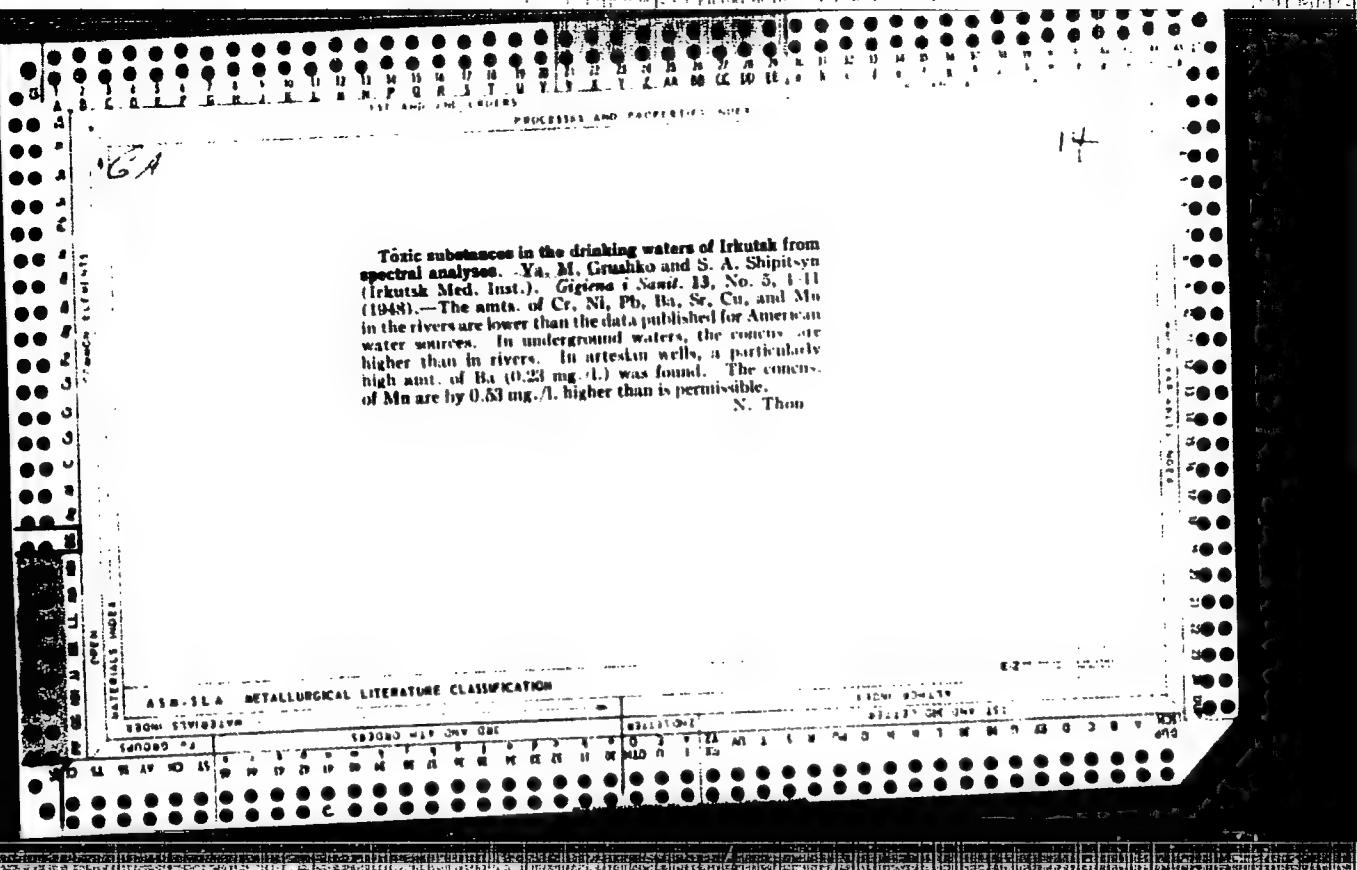
Flour contains 0.18 mg. % Cr, bread 0.09, cabbage 0.13, carrots 0.01, powdered eggs 0.013. The Cr content in well water ranges from 0.0009 to 0.0012 mg. per l. and for river water (Siberia) from 0.0011 to 0.0017 mg. per l.  
H. Priestley

## **11.1.1.4 METALLURGICAL LITERATURE CLASSIFICATION**

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APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120013-0"



GRUSHKO, Ya. M.

USSR/Medicine - Water Purification  
Medicine - Industry and Occupations

Apr 49

"Drainage of Hydrolysis Plants and Maintenance of  
Sanitary Reservoirs," Ya. M. Grushko, Irkutsk  
Oblast Sanitation-Epidemiol Sta, 3 pp

"ChG i San" No 4

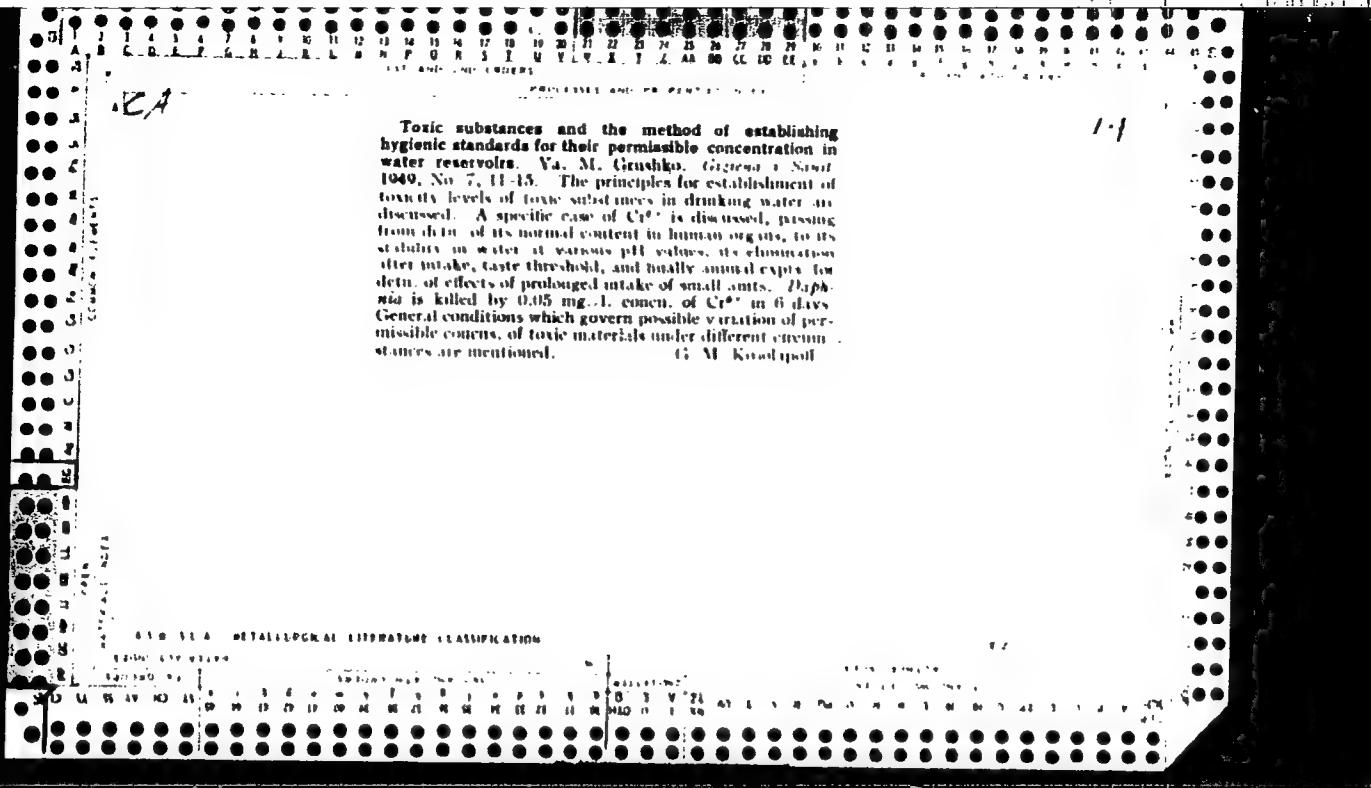
PA 56/49T82  
Drainage of hydrolysis plants pollutes reservoirs  
with its large content of organic and mineral  
materials, especially malt grains, bottoms, lignin  
and furfurole. Draining of lignin and bottoms  
into reservoirs not only is unsanitary but also  
a loss of industrially useful products. Some

56/49T82

USSR/Medicine - Water Purification (Contd) Apr 49

PA 56/49T82  
organic materials in malt grains can be used for  
making yeast, and furfurole is highly toxic and a  
valuable product. Suggests that methods be evolved  
for maximum recovery of these products by hydrolysis  
plants to prevent pollution and loss of usable  
products.

56/49T82



14

CA

Toxic action of hexavalent chromium on microorganisms. V.A. M. Grushko (Izv. Russk. Med. Inst. Leningrad.) Sankt. 1950, No. 2, 17-19. Tests with child sewage water showed that compounds of hexavalent Cr ( $K_2CrO_7$ ) and

chromic anhydride) are toxic to microflora at concns above 0.01 mg./l. At lower concns, a stimulating effect is observed. The effect is noticeable within a few hrs. but is most pronounced after 1 day or longer. For *Aerobacter aerogenes*  $K_2CrO_7$  and chromic anhydride are toxic at above 0.001 mg./l.  $K_2CrO_7$  is toxic only above 0.01 mg./l. For *B. coli* and *B. paratyphi* chromic anhydride is toxic above 0.01 mg./l. and somewhat effective at 0.001 mg./l. G. M. Kosoloski

A  
Toxic substances in drain waters of metal-working concerns and the sanitary protection of water reservoirs  
V. M. Grushko (Irkutsk Med. Inst.), *Gigiena i Sanit.*  
1950, No. 6, 9-12. Preliminary investigations of waste  
liquors from metal-plating plants are discussed, including  
the finding of cyanides, Cr, Cd, Pb, Cu, Zn, and Ni.  
The need for a scientific establishment of permissible  
minimum is stressed, along with the criticism of the U.S.  
recommendations for such metals as Zn and Cr, which are  
said to be at much too high levels to be safe in con-  
tinued exposure. G. M. Kozolatoff

11/2

CA

Toxicity of drinking water containing cadmium salts  
Ya. M. Grushko, V. A. Donskoy, and V. S. Kolesnik  
(Irkutsk MRC Inst.) "Gigiena i Sanit." 1951, No. 9, 22-6.  
Cd is toxic when fed with drinking water to rabbits for 3-6 months. At 100 mg./l. degenerative changes take place in internal organs. At 0.1 mg./l. the changes are largely located in the kidneys where tubular epithelium is swollen; 0.01 mg./l. concen. showed no ill effects. G. M. K.

Dpt. Gen. Hygiene +  
Pathological Anatomy

1. GRUSHKO, Ya. M.
2. USSR (600)
4. Mendeleev, Dmitrii Ivanovich, 1834-1907
7. Public health in the works of D. I. Mendeleev. Sov.zdrav. 11 no. 6, 1952.
  
9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

GRUSHKO, Ya.M.; DONSKOV, V.A.; KOLESNIK, V.S.

Toxicity of nickel. Farm. i toks. 16 no.2:47-49 Mr-Ap '53. (MLRA 6:6)

1. Irkutskiy meditsinskiy institut.

(Nickel--Toxicology)

GRUSHKO, Ya. M.

Chemical Abst.  
Vol. 48 No. 8  
Apr. 25, 1954  
Biological Chemistry

7 Toxicity of hexavalent chromium given via the alimentary tract. V. A. N. Grushko (Med. Inst., Irkutsk). *Farmakol. i Toksikol.* 16, No. 5, 53-60 (1953). —The min. toxic dose of Cr<sup>6+</sup> (rabbit, as K<sub>2</sub>CrO<sub>4</sub> or K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>, in food or water) is 0.0003 mg./kg. for chronic poisoning (frequency not stated). Acute poisoning, 0.0013 to 0.003 mg./kg., shows pathol. changes in the cerebral cortex, cardiac muscle, liver, and kidneys. Julian F. Smith

1. DUSHKO, YA. N.
2. USSR 600
4. Scientists
7. D. I. Mendeleev's ideas on the transformation of nature, Priroda, 42, No. 2, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

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...  
...

RU M.R., Ya. N. --"Materials Concerning the Problem of Hygienic Standardization of the Maximum Permissible Concentration of Hexavalent Chromium in Water."  
\* (Dissertation for Doctor's in Science and Engineering Degree at Higher Educational Institutions.) Kazan State Medical Inst., Kazan, 1954

SC: Knizhnaya Laboratoriya, No. 5, 14 Jan '5

\* For Degree of Doctor of Medical Sciences

GRUSHKO, Ya. M.

Work experience of the department of hygiene in connection with utilization of virgin and idle lands. Gig. i san. no.12:37-40 D '54.

1. Iz Irkutskogo meditsinskogo instituta.

(INDUSTRIAL HYGIENE

agriculture, utilization of virgin soil & fallow ground,  
protective measures, work of department of hygiene, in  
Russia)

(AGRICULTURE

in Russia, virgin soil & fallow ground utilization,  
hygienic measures)

G.RUSHKO, Y.A. M.

Effects of copper, nickel, cadmium, and hexavalent chromium at low concentrations on ascorbic acid. Yu. M. Grushko (Med. Inst., Irkutsk). *Farmakol. i Tphysiol. zhurn.* 28(1954).—Oxidation of ascorbic acid in physiol. salt soln. is perceptibly accelerated by  $\text{Cu}^{++}$  at 0.01 mg./l., strongly at 0.1 mg./l.; perceptibly by  $\text{Cd}^{++}$  at 0.1 mg./l.; perceptibly by  $\text{Ni}^{++}$  and Cr (VI) at 0.1 and strongly at 1 mg./l. Sulfates were used. Pollution of air or water by compds. of these metals may cause hypovitaminosis C.

Julian P. Smith

GRUSHKO, Ya.M. (Irkutsk)

D.I.Mendeleev and medical science. Sov. med. 18 no.11:44-46 N '54.

(MEDICINE

(MLRA 7:12)

contribution of D.I.Mendeleev)

(MENDELEEV, DMITRII IVANOVICH, 1834-1907)

AID P - 2631

Subject : USSR/Medicine

Card 1/1 Pub. 37 - 8/22

Author : Grushko, Ya. M., Dr. Med. Sci.

Title : A. I. Voyeykov, founder of Russian climatology, and  
the importance of his work for hygiene

Periodical : Gig. i san., 8, 31-35, Ag 1955

Abstract : A review of the works by A. I. Voyeykov (1842-1916),  
in which special attention is given to the effect  
of climate, miroclimate, and geographical and  
meteorological conditions on the human organism, as  
well as to problems of the control of nature by man.  
The eminent hygienists F. F. Eriksen and G. V. Khlopin  
refer to Voyeykov in their textbooks on hygiene. It  
is recommended that every hygienist and sanitary  
inspector become well acquainted with Voyeykov's  
work. 7 refs., 1909-1953.

Institution : Irkutsk Medical Institute

Submitted : F 12, 1954

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120013-0

GRUSHKO, Ya.M.

Activities of D.I.Mendeleev in the field of toxicology. Farm. i  
toks. 19 no.2:53-57 Mr-Ap '56. (MLRA 9:7)  
(MENDELEEV, DMITRII IVANOVICH, 1834-1907)  
(PHARMACOLOGY, history  
contribution of D.I.Mendeleev (Rus))

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120013-0"

Ya. M.

The chromium balance in the organism of experimentally poisoned test animals. Ya. M. Grushko (Med. Inst. Irkutsk). *Farmakol. i Toksikol.* 19, No. 4, 45-63 (1965). Chronic subtoxic dosage of rabbits with chromates or dichromates (135-225 days) showed that accumulation in organs and tissues in toxic amounts begins at a concn. of 8 mg./l. in the drinking water, or dose 0.06 mg./kg., before pathological symptoms appear. Julian F. Smith.

GRUSHKO, Ya.M., prof.

D.I.Mendeleev and medicine. Sov.med. 21 no.8:139-143 Ag '57.  
(MIRA 10:12)

1. Iz Irkutskogo meditsinskogo instituta.  
(MENDELEEV, DMITRII IVANOVICH, 1834-1907)

EXCERPTA MEDICA Sec 17 Vol 5/1 Public Health Jan 59

269. COMPARATIVE INVESTIGATIONS OF AIR POLLUTION WITH A CANCEROGENIC SUBSTANCE (3:4-BENZPYRENE) IN IRKUTSK AND ANGARSK  
(Russian text) - Grushko Ya. M., Dikun P. P., Shabad L. M.,  
Rukavishnikova T. I., Zak L. M. and Vlassenko O. M. -

GIC, LSAN, 1958, 4 (7-10) Tables 2

A spectral fluorescent examination was made of samples of snow taken in various districts of 2 industrial towns (Irkutsk and Angarsk) in eastern Siberia. Angarsk is a new town, where the residential districts are separated from the industrial plants by a protective zone of vegetation; besides all the houses have central heating. The possibility of pollution of the atmospheric air with smoke in Angarsk is reduced to a minimum. The amount of 3:4-benzpyrene in the atmospheric air in Irkutsk is about the same as in other old industrial towns. However, in Angarsk there is less 3:4-benzpyrene in the atmospheric air even in the industrial districts and no trace of it has been detected in the central residential district.

GRUSHKO, Ya.M., prof.

D.I. Mendeleev's correspondence with figures in Russian medicine.  
Vrach.delo no.10:1097-1089 0'58 (MIRA 11:11)

1. Irkutskiy meditsinskiy institut.  
(MENDELEEV, DMITRII IVANOVICH, 1834-1907)  
(MEDICINE)

GRUSHKO, Ya. M.

"Some facts on the prevalence of silicosis in the United States".  
(from "Archives of industrial health," 14 no.4: 0'56) by T.Victoria.  
Reviewed by I.A.M. Grushko. Gig.truda i prof. zab. 2 no.5:60-61  
S-O '58 (MIRA 11:11)

(UNITED STATES--LUNGS--DUST DISEASES)  
(VICTORIA, T.)

GRUSHKO, Ya.M. (Irkutsk)

Activities of D.I.Mendeleev in the field of nutritional hygiene.  
Vopr.pit.17 no.1:87-89 Ja '58. (MIRA 11:4)  
(NUTRITION,  
contribution of D.I.Mendeleev (Rus))  
(MENDELEEV, DMITRII IVANOVICH, 1834-1907)

GRUSHKO, Yg.M.; DIKUN, P.P.; SHABAD, L.M.; RUKAVISHNIKOVA, T.I.; ZAK, L.M.;  
VLAZENKO, O.M.

Comparative study of air contamination by a cancerogenic substance  
(3,4-benzopyrene) in Irkutsk and Angarsk [with summary in English].  
Gig. i san. 23 no.4:7-10 Ap '58.  
(MIRA 11:6)

1. Iz knafdry obshchey gigiyeny Irkutskogo meditsinskogo instituta,  
laboratorii eksperimental'noy onkologii Instituta onkologii AMN  
SSSR, Irkutskoy oblastnoy sanitarno-epidemiologicheskoy stantsii i  
Irkutskogo energeticheskogo upravleniya.

(AIR POLLUTION, determ.

by 3,4 benzopyrone in sampling of snow flakes (Rus))

(BENZOPYRENE, determ.

3,4 benzopyrene in sampling of snow flakes in air  
pollution determ. (Rus))

GRUDKO, Ya. A.

"Hygienic Problems in the Construction of the Angarsk  
Hydroelectric Power Station in Irkutsk."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists  
and Infectionists, 1959.

GRUSHKO, Ya.N. (Irkutsk, ul. Dzerzhinskogo, d.29, kv. 2)

Lung cancer and its prevention. Vop.onk. 5 no.5:624-633 '59.

1. Iz kafedry obshchey gigiyeny Irkutskogo meditsinskogo instituta.  
(LUNG NEOPLASMS, prev. & control  
review (Eng))

(MIRA 12:12)

GRUSHKO, Ya.M., prof.

"Fluorine and its hygienic significance" by R.D. Gabovich. Reviewed  
by IA.M. Grushko. Stomatologija 38 no.5;80-81 S-O '59.

(MIRA 13:3)

(GABOVICH, R.D.) (FLUORINE--PHYSIOLOGICAL EFFECT)

## ГИУСНАГУМ

PAPER I: PRACTICAL

6159/601

Brieftexte präzisieren

of the Conference on the Development of Production Forces in Eastern Europe,  
Moscow, July 20-21, 1959. (Berlin: Verlag der Deutschen Demokratischen Republik.)

**Sponsoring Agency:** National Park Service. **Topic:** An introduction to the history of the park.

**FOURTH:** This book is intended for chemical engineers and economic planners connected with the industrial development of North Siberia.

### **Central Industry (Dept.)**

卷之三

6/15/10

|                                                                                                       |     |
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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617120013-0"

GRUSHKO, Ya.M.

Chromium as a carcinogenic substance. Vop. onk. 7 no.1:100-108  
'61. (MIRA 14:2)

(CARCINOGENS)

(CHROMIUM-TOXICOLOGY)

GRUSHKO, Ya., prof.

Preserve the wonder of nature. NTO 4 no.9138-41 S '62.  
(MIRA 16sl)

1. Predsedatel' komiteta po ispol'zovaniyu i okhrane vodnykh  
resursov pri Irkutskom oblastnom sovete nauchno-tehnicheskikh  
obshchestv.

(Baikal, Lake)

GRUSHKO, Ya.M., prof. (Irkutsk)

Longevity among the population of Eastern Siberia. Sov. zdrav.  
21 no.3:48-51 '62. (MIRA 15:3)

1. Iz kafedry obshchey gigiyeny Irkutskogo meditsinskogo  
instituta.  
(SIBERIA, EASTERN--LONGEVITY)

GRUSHKO, Ya.M., prof. (Irkutsk)

"Methods of hygiene research" by A.A. Minkh. Reviewed by I.A.M.  
Grushko. Sov.med. 26 no.12:129-130 D '62. (MIRA 1682)  
(HYGIENE RESEARCH) (MINKH, A.A.)

GRUSHKO, Ya.M., doktor med.nauk (Irkutsk)

"Hydrochemistry of Lake Baikal" by K.K. Votiktsev. Reviewed by  
Ia.M. Grushko. Priroda 51 no.6:36 Je '62. (MIRA 15:6)  
Baikal, Lake--Water--Composition  
(Votintsev, K.K.)

CRUSHKO, Ya.M. (Irkutsk)

Review of the collection of abstracts for 1960: "Industrial  
hygiene and occupational diseases in Czechoslovakia." Gig.  
truda i prof. zab. '7 no.1:59-60 Ja'63 (MIRA 16:12)

GRUSHKO, Ya.M., prof.

Occupational poisoning and diseases caused by chromium; survey  
of literature. Sovet. med. 27 no.9:125-130 S'63 (MIRA 17:2)

1. Iz Irkutskogo gosudarstvennogo meditsinskogo instituta.

GRUSHKO, Yakov Mikhaylovich, prof.; KHAMIDULLIN, R.S., red.

[Chromium compounds and the prevention of poisoning by them] Soedineniya khroma i profilaktika otravlenii imi. Moskva, Izd-vo "Meditina," 1964. 303 p.  
(MIRA 17:5)

GRUSHKO, Ya.M., prof.

Regional water line for the Irkutsk-Cheremkhovo industrial complex. Vod. i san. tekh. no. 6819-21 Ja '64 (MIRA 18:1)

St'Yankov, Ya. M.

Effect of aluminum chloride on fiber and their use in supply  
of aircraft. ZNAR. P. n. 3855-69 '65.  
(MIRA 295)

L. Armatsevich gosudarstvennyy meditechnicheskiy institut.

MURIN, A.N.; BANASEVICH, S.N.; GRUSHKO, Yu.S.

Diffusion of calcium ions in mixed NaCl + ~~KCl~~ Cl<sub>2</sub> crystals.  
Fiz. tver. tela 3 no.8:2427-2433 Ag '61. (MIRA 14:8)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.  
(Diffusion) (Calcium) (Chlorides)

androv, V. P.

21663 Gromov, V. S. Raschet na zhestkost' balok peremennogo secheniya.  
V sbi Issledovaniya po teorii soobshcheniy. Vyp. 4, M.-L., 1949,  
s. 213-40.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moscow, 1949

GRUSHKOVA, T.

Necessary and sufficient condition of the representability of  
the equation  $z = f(x,y)$  in the form of a 4th nomographic  
order Clark-type equation, and a method of finding the elements  
of Massau determinants for it. Uch. zap. MCPI 96:239-258 '60.  
(MIRA 16:7)

(Differential equations)  
(Nomography (Mathematics))  
(Determinants)

S/169/63/000/001/003/062  
D218/D307

AUTHOR: Grushkova, Yaroslava

TITLE: Results of ionospheric measurements in 1959

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 1, 1963, 9,  
abstract 1A38 (In collection: Rezul'taty geomagnitn.,  
tellurich. i ionosfern. izmereniy, proved. v observ.  
Prugonitse, Budkov i Panska Ves v 1959 g. Praga,  
Chekhosl. AH, 1962, 149-151 (Rus.) 154-156 (Eng.))

TEXT: Tabulated results are reported of the following  
observations: (1) sudden ionospheric disturbances at 2.61 and 1.78  
Mc/sec, sudden enhancements of atmospherics at 27 kc/sec, and sudden  
phase anomalies at 155 kc/sec, (2) coefficient of conversion of  
radiowaves at 272 kc/sec, (3) atmospherics, (4) whistlers, and (5)  
vertical sounding of the ionosphere.  
[Abstracter's note: Complete translation]

Card 1/1

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120013-0

4. 27th, 1968 -- [unclear] *Memo*  
B. [unclear] Order [unclear]

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120013-0"

AUTHOR:

Grushkovich, L., Abstractor

110-3-13/14

TITLE:

The Use of Television Methods in Instrument Making  
(Primeneniye televizionnykh metodov v priborostroyenii)

PERIODICAL:

Priborostroyeniye, 1958, Nr 3, pp. 30-31 (USSR)

ABSTRACT:

The present work is an abstract of an article by H. R. Loos, Sdélovaci Technika, 1957, Nr 2, p 51. Television transmission of processes to be investigated or controlled guarantees the following

- 1) Simultaneity of observation.
- 2) Generous and immediate regulation of the picture contrast.
- 3) Wide spectral band.
- 4) Wide aiming-point offsets.

Morgan and Sturm connected an x-ray apparatus and a television surveying camera unit and thus, achieved a 1000 - 3000 fold increase of brightness.

Moon uses a photo-electric cell regulating the brightness of a Braun tube by means of an amplifier. For the determination of the location of material faults Sokolov uses an ultrasonic beam penetrating into the object to be investigated

Card 1/2

The Use of Television Methods in Instrument Making

110-3-13,14

and impinging on a piezo plate. On this plate a distribution of charge corresponding to the ultrasonic field is produced. The plate forms the end of a Braun tube. The thus obtained impulses are used for the regulation of a second Braun tube on which the processes are observed. The Yang microscope operates in similar way. There are 7 figures.

AVAILABLE: Library of Congress

1. Instruments--Design 2. Television--Applications

Card 2/2

GRUSHKOVSKIY, V.I. [Grushkovs'kiy, V.I.]

Induction heat dryer for the drying of rubber compound ingredients.  
Khlm.prom. [Ukr.] no.2:80-81 Ap-Je '65.

(MIRA 18:6)

GRUSHMAN, Roman Petrovich; DUBMNETSKIY, K.N., kandidat tekhnicheskikh nauk, nauchnyy redaktor; KAPLAN, M.Ya., redaktor izdatel'stva; PUL'KINA, Ye.A., tekhnicheskiy redaktor

[Industrial methods for heat insulation of pipes by means of mineral wool] Industrial'nyi sposob teploizoliatsii truboprovodov mineral'noi vatoi. Leningrad, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 26 p.

(Steam pipe coverings)

(MIRA 9:12)

GRUSHMAN, Roman Petrovich; DNEPROVA, N.N., red.; ROZOV, L.K., tekhn.  
red.

[Accident prevention in installing heat insulation] Tekhnika  
bezopasnosti pri teploizoliatsionnykh rabotakh. Leningrad,  
Gosstroizdat, 1963. 64 p. (MIRA 16:5)  
(Insulation (Heat))—Safety measures)

CRUSHMAN, Roman Petrovich; LOBANOVA, K.I., inzh., retsenzent;  
REZNIKOV, M.V., inzh., retsenzent; RAUSH, O.I., nauchn.  
red.; PENOVA, Ye.M., red.; SHISHKOVA, L.M., tekhn.red.

[Ship insulation specialist] Sudovoi izolirovshchik. Le-  
ningrad, Sudpromgiz, 1963. 149 p. (MIRA 17:3)

GRUSHMAN, R.P.

Experience with insulating heating pipelines with foam concrete.  
Stroi.prom. 34 no.4:43 Ap '56. (MLRA 9:8)

1. Glavnnyy inzhener Leningradskogo upravleniya tresta Stroytermo-isolyatsiya.  
(Pipelines) (Insulation (Heat))

GRUSHMAN, Roman Petrovich; DUBEMETSKIY, K.N., kand.tekhn.nauk, nauchnyy  
red.; KAPLAN, M.Ya., red.izd-vs; ROZOV, L.K., tekhn.red.

[What a heat-insulation installer should know] Chto nuzhno znat'  
teploizolirovshchiku. Leningrad, Gos.izd-vo lit-ry po stroit.,  
arkhit. i stroit.materialam, 1959. 102 p. (MIRA 13:3)  
(Insulation (Heat))

GRUSHMAN, Roman Petrovich, inzh.; YASHINA, Ada Gavrilovna; KOMAROVSKIY,  
M.F., red.; FOMICHEV, A.G., red. izd-va; GVIRTS, V.L., tekhn.  
red.

[Asbestos-paper cord; practice in the manufacture and use of  
the new heat-insulating material] Asbestobumazhnyi shnur;  
opyt izgotovleniya i primeneniya novogo teploizolatsionnogo  
materiala. Leningrad, 1962. 8 p. (Leningradskii Dom nauchno-  
tekhnicheskoy propagandy. Obmen peredovym opyтом. Seriia:  
Stroitel'naya promyshlennost', no.1) (MIRA 15:3)  
(Asbestos) (Insulation (Heat))

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120013-0

G. M. GULAN, i.P., inzh.

Insulating walls with reinforced mineral-wool mats. Mont. i spets.  
rab. v stroi. 24 no.1:29 Ja '62. (MIRi 15:7)  
(Mineral wool)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120013-0"

GRUSHMAN, Roman Petrovich

[What the worker engaged in heat insulation should know]  
Chto nuzhno znat' teploizolirovshchiku. 2. izd., perer.  
1 dop. Leningrad, Stroinidat, 1965. 111 p.  
(MIRA 18:6)

SHORYGINA, N.N.; MIKHAYLOV, N.P.; GRUSHNIKOV, O.P.

Obtaining some modified preparations of hydrochloric-acid lignin.  
Zhur.prikl.khim. 37 no.1:170-176 Ja. '64. (MIRA 17:2)

1. Institut organicheskoy khimii AN SSSR imeni N.D.Zelinskogo.

GRUSHNIKOVA, L.P.; SMOLOV, G.B.

[Improvement of safety measures and hygienic conditions  
for work on the roving machines in flax spinning  
industries] Ucheshbenie tekhnicheskikh ogranichenii i sanitarno-  
gigienicheskikh usloviy truda na ravnichnykh masinakh  
i nepriadiil'nyego preizveststva. Iverovo, 1963. 31 p.  
(NII 17:8)

1. Vsesoyuznyj natsional'noe issledovatel'skij institut ohrany  
truda.

GRUSHOVSKI, M.

"Industrialization in Slovakia", P. 58., (TESHKA PROMISHLENOST, Vol. 3,  
No. 10, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (SLL), LC, Vol. 4,  
No. 6, June 1955, Uncl.

CHUKSANOV, A.A.; GRUSHNIKOV, O.P.; SHORYGINA, N.N.

Study of nitrolignin inhomogeneity. Izv.AN SSSR.Otd.khim.nauk  
no.10:1810-1812 O '61. (MIRA 14:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.  
(Nitrolignin)

GRUSHVITSKAYA, M.K.; GRUSHVITSKIY, I.V.

Anatomy and biology of ginseng. Mat. k izuch. zhen'-shenia i  
lim. no.2:19-34 '55. (MLRA 9:10)

(GINSENG)

GRUSHVIT'KAYA, M.Z.; GRUSHVIT'KAYI, I.V.; GUDI, K.V., Z.V.

Implantation of the surface shoots and leaves of ginseng.  
Mat. k izuch. zhen', i drug. lek. rast. Dal'. Vest. no.5:  
39-43 '63. (MIRA 17:8)

1. Botanicheskly institut AN SSSR i Okt'renovskichnyy filial  
Imeni Komarova Sibirskego otdeleniya AN SSSR.

GRUSHVITSKAYA, O.

AID P - 1532

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 28/36

Author : Grushvitskaya, O. N., Eng.

Title : Experience with routine test of underground power lines

Periodical : Elek. sta., 3, 57 - 58, Mr 1955

Abstract : The author describes periodical tests which have been introduced since 1943 in one of the power systems. This measure resulted in a considerable reduction of faults. The author presents comparative data and three graphs.

Institution: None

Submitted : No date

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120013-0

GRUSHVITSKAYA, O.N., inzhener.

Cleaning insulators. Elek.sta.27 no.6:61 Je '56. (MIRA 9:9)  
(Electric insulators and insulation) (Ceresin)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120013-0"

GRUSHVITSKAYA, O.N., inzhener.

On the level for testing voltage and the periodicity of testing  
generators with worn insulation. Elek. sta. 28 no.6:91-92 Je '57.  
(Electric generators) (MLRA 10:8)

GRUSHVITSKAYA, O.N., inzh.

Concerning the operation of a turbogenerator with "ground" in  
the stator winding. Elek. sta. 33 no.6:77-78 Je '62.  
(MIRA 15:7)

(Turbogenerators)

1. ...IV, I. I.
2. USSR (600)
4. Species, Origin of - Far East
7. Mountain river valleys as arenas of species formations. Izv. Vses. geogr. obshch. 79, No. 3, 1947.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

UNIVERSITY, L. I.

REF ID: A6500

UNCR/Medicine - Plants  
Medicine - Tropism

Jun 48

"Negative Geotropism of Roots of the Cinnamon Fern  
on a Survey in the Ussuri Range," I. V.  
Grushvitskiy, 1 p

"Priroda" No 6

Briefly discusses this phenomenon which is seldom  
found, and then usually only in tropic regions.

2/4978

GRUSHIVITSKIY, I. V.

Grushivitskiy, I. V. "On the vertical disjunctions in the distribution of vegetation," Uchen. zapiski (Leningr. gos. ped. inst. im. Pokrovskogo), Vol. VI, 1946, p. 22-112 - Publishing: 30 items

SO: U-3750, 16 June 53, (Letoris 'Zhurnal 'Nauk Statev, No. 5, 1950).

GRUSHVITSKIY, I. V.

33068

Muzey Dostizheniy I. V. Michurina (G. Michurinsk). Botan. Zhurnal, 1949, No. 5,  
S. 552-58

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

*Botanical Inst. im. V I Komarov Acad Sci USSR.*

GRUSHVITSKIY, I. V.

Jan/Feb 49

USSR/Medicine - Botany, History  
Medicine - Societies, Medical

"Brief Resume of the Work of the Third Conference on the History of Flora and  
Vegetation of the USSR (20-25 January 1948)," B. A. Tikhomirov, A. Fedorov, I. V.  
Grushvitskiy, 15 pp

"Botan Zhur" Vol XXXIV, No 1

Conference was well attended by representatives of various botanical institutions.  
Various reports on historical aspects of the study of botany in the USSR were submitted.

PA 42/49T61

GRUSHVITSKIY/I3V3

600

1. GRUSHVITSKIY, I. V.; IVANINA, L. I.

2a. USSR (600)

4. Biology - Exhibitions

7. For the popularization of Michurin's Teachings; a new exhibition "The Leading Michurin Biology" in the museum of the Botanical Institute of V. L. Komarov, Academy of Sciences of the USSR Bot. zhur., 37, No. 1, 1952. Botanicheskiy Institut im. V. L. Komarova Akademii Nauk SSSR Leningrad

Rcd. 11 Oct. 1951

9a. Monthly List of Russian Accessions, Library of Congress, April 1952.  
UNCLASSIFIED

1. GRUSHVITSKIY, I. V.
2. USSR (600)
4. Roots (Botany)
7. Contractile roots are an important biological particularity of ginseng (*Panax ginseng* C. A. M.) Bot. zhur. 37, No. 5, 1952.
  
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

GRUSHVITSKIY, I.V.

Remarks on the article of Hsia Wei-ying. Bot. zhur. 39 no.3:457-459  
My-Je '54. (MLRA 7:7)

1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR,  
Leningrad.  
(Hsia, Wei-ying) (Ginseng)

GRUSHVITSKIY, I. V.  
USSR/ Biology - Botany

Card 1/1 : Pub. 86 - 7/36

Authors : Grushvitskiy, I. V., and Gutnikova, Z. I.

Title : Ginseng

Periodical : Priroda 43/8, 55-61, Aug 1954

Abstract : Some history is given of the use of ginseng, a plant found only in the eastern part of Siberia. The botanical facts relating to this plant are discussed. An account is also given of extensive research conducted by Soviet scientists with the root of ginseng, which showed that remedies prepared from this root have a definite beneficial effect as a tonic on the human organism. Illustrations; drawings.

Institution : ...

Submitted : ...

GRUSHVITSKIY, I.V.

Panax ginseng C.A.Mey. is the real name of ginseng. Mat. k  
izuch. zhem'-shenia i lim. no.2:13-18 '55. (MLRA 9:10)

(GINSENG)

GRUSHVITSKAYA, M.K.; GRUSHVITSKIY, I.V.

Anatomy and biology of ginseng. Mat. k izuch. zhon'-shenia i  
lim. no.2:19-34 '55. (MLRA 9:10)

(GINSENG)

GRUSHVITSKIY, I.V.

Ginseng diseases; survey of literature. Mat. k izuch. zhem'-shenia  
i lim. no.2:35-70 '55. (MLRA 9:10)

(GINSENG--DISEASES AND PESTS)

GRUSHVITSKIY, I.V.

Variability in the arrangement of ginseng leaves. Soob. DVFAAN SSSR  
no. 7:39-47 '55. (MLRA 10:4)

1. Botanicheskiy institut im. V. L. Komarova AN SSSR.  
(Ginseng) (Leaves)

GRUSHVITSKIY, I.V.

Planklike roots of the white-barked elm (*Ulmus propinqua* Koidz.)  
Socb DVFAm SSSR no. 7:70-75 '55. (MLRA 10:4)  
(Maritime Territory--Elm) (Roots (Botany))

GRUSHVITSKIY, I V

*Effects of ginseng on microorganisms.* V. G. Grinenko-skaya and I. V. Grushvitskiy (V. L. Komarov Botan. Inst., Leningrad). *Mikrobiologiya* 25, 221-6 (1956).—Liquid from young ginseng roots or sprouts is an active protistocide and rapidly inactivates or kills protozoa (*Glaucoma scutillans*). *Mf*

Tests with bacterial cultures (*Bacillus megatherium*, *Serratia marcescens* and organisms of garlic root) showed that both the volatile fractions and the root liquid are stimulants. Infusions in aq. alc. from leaves, blossoms and rootlets had bactericidal activity, while infusions from the main root, dried sprouts and stems acted as mild stimulants.

Julian F. Smith

2